1	We Claim:		
2	1. A method for identifying a nucleic acid with an electronic stringency device,		
3	comprising the steps of:		
4	forming a double-stranded hybridization product comprising a sample nucleic acid		
5	and a probe of known sequence, wherein the sequences of the sample nucleic acid and probe		
6	either are the same or differ by one nucleotide, an environmentally sensitive emissive		
. 7 _.	fluorescent label being associated with the hybridization product in proximity to the nucleic		
8	acid to be identified, wherein either the sample nucleic acid or the probe is attached the		
9	electronic stringency device,		
10	subjecting the double-stranded hybridization product to a varying electrophoretic		
11	force,		
12	monitoring the fluorescence from the double-stranded hybridization product while		
13	varying the electrophoretic force over time, and		
14	analyzing the fluorescent signal to identify the nucleic acid of the sample.		
15			
16	2. The method of claim 1, wherein the environmentally sensitive emissive label		
17	is selected from the group consisting of environmentally sensitive dyes, fluorophores and		
18	chromophores.		
19			
20	3. The method of claim 1, wherein the environmentally sensitive emissive dye is		
21	sensitive to hydrophilicity.		
22			
23	4. The method of claim 1, wherein the environmentally sensitive emissive dye is		
24	sensitive to hydrophobicity.		
25			
26	5. The method of claim 1, wherein the environmentally sensitive emissive dye is		

sensitive to pH.

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1	6.	The method of claim 1, wherein the environmentally sensitive emissive dye is	
2	sensitive to electrostatic charge.		
3			
4	7.	The method of claim 1, wherein the environmentally sensitive emissive dye is	
5	sensitive to Van der Waals interactions.		
6			
7	8.	The method of claim 1, wherein the environmentally sensitive emissive dye is	
8	sensitive to DNA sequence variability.		
9			
10	9.	A method for analyzing a nucleic acid sequence, utilizing an electronic	
11	stringency control device, comprising the steps of:		
12	providing the nucleic acid sequence, a probe of known sequence, and a label in		
13	proximity to the nucleic acid to be identified on the electronic stringency control device to		
14	form a labeled double-stranded hybridization product, the nucleic acid sequence having a ne		
15	charge of a first sign, the label having a net charge of a sign opposite to the first sign,		
16	subjecting the double-stranded hybridization product to an electrophoretic force,		
17	monitoring the emission from the double-stranded hybridization product while		
18	varying the e	electrophoretic force over time, and	
19	analy	zing the emission to determine the sequence of the sample nucleic acid.	
20			
21	10.	The method of claim 1, wherein the varying electrophoretic force is a pulsed	
22	sequence.		
23			